10663552 CLS

Most Frequently Occurring Classifications of Patents Returned From A Search of 10663552 on March 11, 2004

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3 250/310
  2 257/296
  2 430/22
  2 438/270
Cross-Reference Classifications
  9 257/E27.103
  8 257/E27.096
  6 257/E21.693
  5 257/E27.091
  4 257/330
  4 257/E21.652
  4 257/E21.655
  4 257/E27.086
  4 257/E29.129
  3 250/492.1
  3 257/302
  3 257/E29.304
  3 438/268
  3 438/270
  3 438/294
  2 250/306
  2 250/307
  2 250/492.2
  2 250/492.3
  2 257/314
  2 257/315
     257/316
     257/327
    257/E21.027
     257/E21.345
    257/E21.429
  2
2
2
2
2
    257/E21.575
    257/E21.657
     257/E21.659
    257/E21.68
     257/E39.014
  2
     430/296
  2
     430/942
  2
    430/967
  2
     438/207
  2
     438/242
  2
     438/243
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Original Classifications

10663552 CLS

2 438/300 2 438/427 2 438/589 2 438/631 Combined Classifications 9 257/E27.103 8 257/E27.096 6 257/E21.693 5 257/E27.091 5 438/270 4 250/310 4 257/330 4 257/E21.652 4 257/E21.655 4 257/E27.086 4 257/E29.129 3 250/492.1 3 250/492.2 3 257/296 3 257/302 3 257/315 3 257/E29.304 3 438/242 3 438/268 3 438/294 2 216/71 2 250/306 2 250/307 250/309 250/492.3 257/301 2 257/314 257/316 257/327 257/35 257/E21.027 257/E21.345 257/E21.429 257/E21.575 2 257/E21.657 2 257/E21.659 257/E21.68 257/E39.014 2 430/22

438/299

2

2

2

430/296

430/5

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- 2 430/942 2 430/967 2 438/207 2 438/243 2 438/259 2 438/259 2 438/299 2 438/300 2 438/427 2 438/589 2 438/631

Titles of Most Frequently Occurring Classifications of Patents Returne d

From A Search of 10663552 on March 11, 2004

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257/E27.103 (0 OR, 9 XR)
                  257 : ACTIVE SOLID-STATE DEVICES
         Class
          257/E27.006
                        .Including piezo-electric, electro-resistive,
                                 or magneto-resistive component (EPO)
                        .Including semiconductor component with at
          257/E27.009
                                least one potential barrier or surface
barrier adapted for
                                rectifying, oscillating, amplifying, o
r switching, or
                                Including integrated passive circuit e
lements (EPO)
                        ..With semiconductor substrate only (EPO)
          257/E27.01
                        ... Including a plurality of individual
          257/E27.07
                              components in a repetitive configuration
 (EPO)
                        ....Including field-effect component (EPO)
          257/E27.081
                        ....Read-only memory, ROM, structure (EPO)
          257/E27.102
                        .....Electrically programmable ROM (EPO)
          257/E27.103
    257/E27.096 (0 OR, 8 XR)
                  257 : ACTIVE SOLID-STATE DEVICES
          Class
                        .Including piezo-electric, electro-resistive,
          257/E27.006
                                   or magneto-resistive component (EPO
                        .Including semiconductor component with at
          257/E27.009
                                  least one potential barrier or surfa
ce barrier adapted for
                                  rectifying, oscillating, amplifying,
 or switching, or
                                  Including integrated passive circuit
 elements (EPO)
                        ..With semiconductor substrate only (EPO)
          257/E27.01
                        ... Including a plurality of individual
          257/E27.07
                                components in a repetitive configurati
on (EPO)
                        ....Including field-effect component (EPO)
          257/E27.081
                        .....Dynamic random access memory, DRAM,
          257/E27.084
                              structure (EPO)
                        .....One-transistor memory cell structure,
          257/E27.085
                             i.e., each memory cell containing only on
e transistor (EPO)
                        ......Capacitor and transistor in common
          257/E27.095
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trench (EPO)

257/E27.096Vertical transistor (EPO)

6 257/E21.693 (0 OR, 6 XR)

Class 257: ACTIVE SOLID-STATE DEVICES Could not find subclass title.

5 257/E27.091 (0 OR, 5 XR)

Class 257: ACTIVE SOLID-STATE DEVICES

257/E27.006 .Including piezo-electric, electro-resistive, or magneto-resistive component (EPO)

257/E27.009 .Including semiconductor component with at least one potential barrier or surfac

e barrier adapted for

rectifying, oscillating, amplifying,

or switching, or

Including integrated passive circuit

elements (EPO)

257/E27.01 ..With semiconductor substrate only (EPO)

257/E27.07 ...Including a plurality of individual

components in a repetitive configuratio

n (EPO)

257/E27.081Including field-effect component (EPO)

257/E27.084Dynamic random access memory, DRAM,

structure (EPO)

257/E27.085One-transistor memory cell structure,

i.e., each memory cell containing only one

transistor (EPO)

257/E27.091Transistor in trench (EPO)

5 438/270 (2 OR, 3 XR)

Class 438: SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS

438/142 MAKING FIELD EFFECT DEVICE HAVING PAIR OF
ACTIVE REGIONS SEPARATED BY GATE STRUCTU

RE BY FORMATION OR

ALTERATION OF SEMICONDUCTIVE ACTIVE REGI

ONS

.Having insulated gate (e.g., IGFET, MISFET, MOSFET, etc.)

438/268 ..Vertical channel

438/270 ... Gate electrode in trench or recess in

semiconductor substrate

4 250/310 (3 OR, 1 XR)

Class 250: RADIANT ENERGY

	10663552_CLSTITLES 250/306 INSPECTION OF SOLIDS OR LIQUIDS BY CHARGED PARTICLES 250/310 .Electron probe type			
4 257/	(0 OR, 4 XR) Class 257: ACTIVE SOLID-STATE DEVICES 257/264Enhancement mode or with high resistivity channel (e.g., doping of 10 15 cm -3 o			
r less)	.Having insulated electrode (e.g., MOSFET, MOS diode)			
	257/327Short channel insulated gate field effect transistor			
	257/329 Gate controls vertical charge flow portion of channel (e.g., VMOS device)			
	257/330Gate electrode in groove			
4 257/	221.652 (0 OR, 4 XR) Class 257: ACTIVE SOLID-STATE DEVICES Could not find subclass title.			
4 257/	221.655 (0 OR, 4 XR) Class 257: ACTIVE SOLID-STATE DEVICES Could not find subclass title.			
4 257/	27.086 (0 OR, 4 XR) Class 257: ACTIVE SOLID-STATE DEVICES 257/E27.006 .Including piezo-electric, electro-resistive, or magneto-resistive component (EPO)			
	257/E27.009 .Including semiconductor component with at least one potential barrier or surfac			
e barrier	adapted for rectifying, oscillating, amplifying,			
or switching, or				
elements	Including integrated passive circuit (EPO) 257/E27.01With semiconductor substrate only (EPO) 257/E27.07Including a plurality of individual components in a repetitive configuratio			
n (EPO)	257/E27.081Including field-effect component (EPO) 257/E27.084Dynamic random access memory, DRAM,			
	structure (EPO) 257/E27.085One-transistor memory cell structure, i.e., each memory cell containing only one			
transistor (EPO)				

10663552 CLSTITLES 257/E27.086Storage electrode stacked over the transistor 4 257/E29.129 (0 OR, 4 XR) Class 257: ACTIVE SOLID-STATE DEVICES 257/E29.104 Si compounds (e.g., SiC) (EPO) 257/E29.111 .Electrodes (EPO) 257/E29.112 .. Characterized by their shape, relative sizes or dispositions (EPO) ... Not carrying current to be rectified, 257/E29.123 amplified, or switched (EPO) 257/E29.126 Gate stack for field-effect devices (EPO) 257/E29.127For field-effect transistors (EPO) 257/E29.128With insulated gate (EPO) 257/E29.129Gate electrodes for transistors with floating gate (EPO) 250/492.1 (0 OR, 3 XR) Class 250: RADIANT ENERGY 250/492.1 IRRADIATION OF OBJECTS OR MATERIAL 250/492.2 (1 OR, 2 XR) Class 250: RADIANT ENERGY 250/492.1 IRRADIATION OF OBJECTS OR MATERIAL 250/492.2 .Irradiation of semiconductor devices 3 257/296 (2 OR, 1 XR) Class 257: ACTIVE SOLID-STATE DEVICES ... Enhancement mode or with high resistivity 257/264 channel (e.g., doping of 10 15 cm -3 or less) 257/288 .Having insulated electrode (e.g., MOSFET, MOS diode) 257/296 .. Insulated gate capacitor or insulated gate transistor combined with capacitor (e.g., d ynamic memory cell) 257/302 (0 OR, 3 XR)Class 257 : ACTIVE SOLID-STATE DEVICES 257/264 ... Enhancement mode or with high resistivity channel (e.g., doping of 10 15 cm -3 o r less) 257/288 .Having insulated electrode (e.g., MOSFET, MOS diode)

.. Insulated gate capacitor or insulated gate

transistor combined with capacitor (e.g.,

257/296

_				10663552_CLSTITLES
dyn	amic	memory		
		257/301 257/302		cell)Capacitor in trenchVertical transistor
3	257/	315 Class 257/264	257	OR, 2 XR) : ACTIVE SOLID-STATE DEVICESEnhancement mode or with high resistivity channel (e.g., doping of 10 15 cm -3 or
les	s)			
		257/288		.Having insulated electrode (e.g., MOSFET, MOS diode)
		257/314		Variable threshold (e.g., floating gate memory device)
		257/315		With floating gate electrode
3	257/	Class	257 .162 .166	
lar	trans	istor, ga	ate	
		257/E29 257/E29 257/E29 257/E29 257/E29 257/E29	.242 .255 .3 .302	of field-effect transistor) (EPO)Unipolar device (EPO)Field-effect transistor (EPO)With field effect produced by insulated gate (EPO)With floating gate (EPO)Hi-lo programming levels only (EPO)Charging by tunneling of carriers (e.g., Fowler-Nordheim tunneling) (EPO)
3	438/	242	(1	OR, 2 XR)
J	1307			: SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
		438/142		MAKING FIELD EFFECT DEVICE HAVING PAIR OF ACTIVE REGIONS SEPARATED BY GATE STRUC
TURE	BY F	ORMATION	OR	
				ALTERATION OF SEMICONDUCTIVE ACTIVE RE
GION	S	100/100		
		438/197		.Having insulated gate (e.g., IGFET, MISFET, MOSFET, etc.)
		438/238		Including passive device (e.g., resistor, capacitor, etc.)
		438/239		Capacitor
		438/241		And additional field effect transistor (e.g., sense or access transistor, etc.)

		438/242		Including transistor formed on trench sidewalls
	3		•	OR, 3 XR) : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
		438/142		MAKING FIELD EFFECT DEVICE HAVING PAIR OF ACTIVE REGIONS SEPARATED BY GATE STRUCTUR
E NS		FORMATION OR		ALTERATION OF SEMICONDUCTIVE ACTIVE REGIO
10.5)	438/197		.Having insulated gate (e.g., IGFET, MISFET, MOSFET, etc.)
		438/268		Vertical channel
	3	438/294 Class	•	OR, 3 XR) : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
		438/142		MAKING FIELD EFFECT DEVICE HAVING PAIR OF ACTIVE REGIONS SEPARATED BY GATE STRUCTUR
Ε	ВҮ	FORMATION OR		ALTERATION OF SEMICONDUCTIVE ACTIVE REGIO
NS	5	438/197		.Having insulated gate (e.g., IGFET, MISFET, MOSFET, etc.)
		438/294		Including isolation structure
	2	216/71 Class 216/58 216/63	•	OR, 1 XR) : ETCHING A SUBSTRATE: PROCESSES GAS PHASE ETCHING OF SUBSTRATE .Application of energy to the gaseous etchant or to the substrate being etched
		216/67 216/71		Specific configuration of electrodes to generate the plasma

	2	250/306	(0	OR,	2 :	XR)
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Class 250: RADIANT ENERGY

250/306 INSPECTION OF SOLIDS OR LIQUIDS BY CHARGED PARTICLES

2 250/307 (0 OR, 2 XR)

Class 250: RADIANT ENERGY

250/306 INSPECTION OF SOLIDS OR LIQUIDS BY CHARGED

PARTICLES

250/307 .Methods

. 2 250/309 (1 OR, 1 XR)

	10663552 CLSTITLES
 2EA	DADIANO ENTEDAV

Class 250: RADIANT ENERGY

250/306 INSPECTION OF SOLIDS OR LIQUIDS BY CHARGED

PARTICLES

250/309 .Positive ion probe or microscope type

2 250/492.3 (0 OR, 2 XR)

Class 250: RADIANT ENERGY

250/492.1 IRRADIATION OF OBJECTS OR MATERIAL 250/492.3 .Ion or electron beam irradiation

2 257/301 (1 OR, 1 XR)

Class 257: ACTIVE SOLID-STATE DEVICES

257/264 ...Enhancement mode or with high resistivity channel (e.g., doping of 10 15 cm -3 or

less)

257/288 .Having insulated electrode (e.g., MOSFET, MOS

diode)

257/296 .. Insulated gate capacitor or insulated gate transistor combined with capacitor (e.g.,

dynamic memory

cell)

257/301 ...Capacitor in trench

2 257/314 (0 OR, 2 XR)

Class 257: ACTIVE SOLID-STATE DEVICES

257/264 ...Enhancement mode or with high resistivity channel (e.g., doping of 10 15 cm -3 or

less)

257/288 .Having insulated electrode (e.g., MOSFET, MOS

diode)

257/314 .. Variable threshold (e.g., floating gate

memory device)

2 257/316 (0 OR, 2 XR)

Class 257: ACTIVE SOLID-STATE DEVICES

257/264 ...Enhancement mode or with high resistivity channel (e.g., doping of 10 15 cm -3 o

r less)

257/288 .Having insulated electrode (e.g., MOSFET, MOS

diode)

257/314 ..Variable threshold (e.g., floating gate

memory device)

257/315 ...With floating gate electrode

257/316With additional contacted control electrod

е

2 257/327 (0 OR, 2 XR)

	Class 257 257/264	10663552_CLSTITLES : ACTIVE SOLID-STATE DEVICESEnhancement mode or with high resistivity channel (e.g., doping of 10 15 cm -3 or
less)	257/288	.Having insulated electrode (e.g., MOSFET, MOS diode)
	257/327	Short channel insulated gate field effect transistor
2 257/	35 (1	OR, 1 XR)
	Class 257 257/9	: ACTIVE SOLID-STATE DEVICES THIN ACTIVE PHYSICAL LAYER WHICH IS (1) AN ACTIVE POTENTIAL WELL LAYER THIN ENOUGH
TO ESTABLE	ISH	
ACTIVE B	ARRIER	DISCRETE QUANTUM ENERGY LEVELS OR (2) AN
	пистыс	LAYER THIN ENOUGH TO PERMIT QUANTUM MECH
ANICAL TU	NNELING OR	(3) AN ACTIVE LAYER THIN ENOUGH TO PERMI
T CARRIER		
ERING (E.	G.,	TRANSMISSION WITH SUBSTANTIALLY NO SCATT
·	•	SUPERLATTICE QUANTUM WELL, OR BALLISTIC
TRANSPORT	DEVICE)	
	257/30	.Tunneling through region of reduced conductivity
	257/31	Josephson
	257/35	Particular barrier material
2 257/1	E21.027 (0	·
		: ACTIVE SOLID-STATE DEVICES PROCESSES OR APPARATUS ADAPTED FOR MANUFACTURE
		OR TREATMENT OF SEMICONDUCTOR OR SOLID
-STATE DE	VICES OR OF	
	257/E21.002	PARTS THEREOF (EPO) .Manufacture or treatment of semiconductor device (EPO)
	257/E21.023	Making mask on semicond uctor body for further photolithographic processing (EP
0)		raremer photorremographic processing (Er
	257/E21.024 257/E21.026	Comprising organic layer (EPO)Characterized by treatment of photoresist
	201/621.020	layer (EPO)
•	257/E21.027	Photolith ographic process (EPO)
2 257/1	E21.345 (0	OR, 2 XR)

	Class 257	10663552_CLSTITLES : ACTIVE SOLID-STATE DEVICES
	257/E21.001	PROCESSES OR APPARATUS ADAPTED FOR MANUFACTURE
ID-STATE	DEVICES OR O	
	257/E21.002	PARTS THEREOF (EPO) .Manufacture or treatment of semiconductor device (EPO)
	257/E21.04	Device having at least one potential-jump barrier or surface barrier, e.g., PN j
unction,	depletion	layer, carrier concentration layer (EP
0)		rayer, carrier concentration rayer (Er
·	257/E21.085	Device having semiconductor body comprising Group IV elements or Group III-V compou
nds with	or without	impurities, e.g., doping materials (EPO
)		impullites, e.g., doping materials (Ero
	257/E21.328 257/E21.331 257/E21.334 257/E21.345	Radiation treatment (EPO)With high-energy radiation (EPO)Producing ions for implantation (EPO)Characterized by the angle between the ion beam and the crystal planes or the mai
n crystal		
		surface (EPO)
2 257/		OR, 2 XR) : ACTIVE SOLID-STATE DEVICES PROCESSES OR APPARATUS ADAPTED FOR MANUFACTURE
OLID-STAT	E DEVICES OR	OR TREATMENT OF SEMICONDUCTOR OR S
	257/E21.002	PARTS THEREOF (EPO) .Manufacture or treatment of semiconductor
	257/E21.04	device (EPO) Device having at least one potential-jump barrier or surface barrier, e.g., PN
junction	, depletion	
EPO)		layer, carrier concentration layer (
ы о ,	257/E21.085	Device having semiconductor body comprising Group IV elements or Group III-V comp
	h or without	impurities, e.g., doping materials (E
PO)	257/E21.394	Multi-step process for the manufacture of unipolar device (EPO)
	257/E21.4	Field-effect transistor (EPO)

257/E21.409With an insulated gate (EPO)

257/E21.424Lateral single gate silicon transistor (EPO)

257/E21.428With a recessed gate, e.g., lateral U-MOS (EPO)

257/E21.429 location (EPO)

2 257/E21.575 (0 OR, 2 XR)

257 : ACTIVE SOLID-STATE DEVICES Class

257/E21.531 ... For electrical parameters, e.g.,

resistance, deep-levels, CV, diffusions

by electrical means

(EPO)

257/E21.532 .Manufacture or treatment of devices

consisting of plurality of solid-state co

mponents formed in

or on common substrate or of parts thereo

f; manufacture of

integrated circuit devices or of parts th

ereof (EPO)

257/E21.536 .. Manufacture of specific parts of devices

(EPO)

257/E21.575 ... Interconnections, comprising conductors and dielectrics, for carrying current between s

eparate

components within device (EPO)

2 257/E21.657 (0 OR, 2 XR)

257 : ACTIVE SOLID-STATE DEVICES Could not find subclass title.

257/E21.659 (0 OR, 2 XR)

Class 257: ACTIVE SOLID-STATE DEVICES

Could not find subclass title.

(0 OR, 2 XR) 2 257/E21.68

Class 257: ACTIVE SOLID-STATE DEVICES

Could not find subclass title.

2 257/E39.014 (0 OR, 2 XR)

Class 257: ACTIVE SOLID-STATE DEVICES

257/E39.001 DEVICES USING SUPERCONDUCTIVITY, PROCESSES, OR

APPARATUS PECULIAR TO MANUFACTURE OR TREA

TMENT OF SUCH

DEVICES, OR OF PARTS THEREOF (EPO)

257/E39.012 .Devices comprising junction of dissimilar

materials, e.g., Josephson-effect devices

/ED/	~ \		10663552_CLSTITLES
(EP			Josephson-effect devices (EPO)
2	430/22 Class	•	OR, 0 XR) : RADIATION IMAGERY CHEMISTRY: PROCESS, COMPOSITION, OR PRODUCT THEREOF
R	430/22		REGISTRATION OR LAYOUT PROCESS OTHER THAN COLO
IX			PROOFING
2	430/296 Class	·	OR, 2 XR) : RADIATION IMAGERY CHEMISTRY: PROCESS, COMPOSITION, OR PRODUCT THEREOF
	430/269		IMAGING AFFECTING PHYSICAL PROPERTY OF RADIATION SENSITIVE MATERIAL, OR PRODUCING
NON	PLANAR OR		PRINTING SURFACE - PROCESS, COMPOSITION, O
R PRODUCT 430/296			.Electron beam imaging
2	•	•	OR, 1 XR) : RADIATION IMAGERY CHEMISTRY: PROCESS,
	430/4		COMPOSITION, OR PRODUCT THEREOF RADIATION MODIFYING PRODUCT OR PROCESS OF MAKING
	430/5		.Radiation mask
2	430/942 Class		OR, 2 XR) : RADIATION IMAGERY CHEMISTRY: PROCESS, COMPOSITION, OR PRODUCT THEREOF
	430/942		·
2	•	•	OR, 2 XR) : RADIATION IMAGERY CHEMISTRY: PROCESS, COMPOSITION, OR PRODUCT THEREOF
	430/966 430/967		X-RAY .X-ray exposure process
2		•	OR, 2 XR) : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
	438/142		MAKING FIELD EFFECT DEVICE HAVING PAIR OF

438/142 MAKING FIELD EFFECT DEVICE HAVING PAIR OF
ACTIVE REGIONS SEPARATED BY GATE STRUC

TURE BY FORMATION OR

ALTERATION OF SEMICONDUCTIVE ACTIVE RE

GIONS

.Having insulated gate (e.g., IGFET, MISFET, MOSFET, etc.)

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10663552_CLSTITLES 438/199Complementary insulated gate field effect transistors (i.e., CMOS) 438/200And additional electrical device 438/202Including bipolar transistor (i.e., BiCMOS)				
438/207Including isolation structure				
2 438/243 (0 OR, 2 XR) Class 438: SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS				
438/142 MAKING FIELD EFFECT DEVICE HAVING PAIR OF ACTIVE REGIONS SEPARATED BY GATE STRUCT				
URE BY FORMATION OR ALTERATION OF SEMICONDUCTIVE ACTIVE REG				
IONS				
438/197 .Having insulated gate (e.g., IGFET, MISFET, MOSFET, etc.)				
438/238 Including passive device (e.g., resistor, capacitor, etc.)				
438/239Capacitor 438/243Trench capacitor				
2 438/259 (1 OR, 1 XR) Class 438: SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS				
438/142 MAKING FIELD EFFECT DEVICE HAVING PAIR OF ACTIVE REGIONS SEPARATED BY GATE STRUCTU				
RE BY FORMATION OR				
ALTERATION OF SEMICONDUCTIVE ACTIVE REGIONS				
438/197 .Having insulated gate (e.g., IGFET, MISFET, MOSFET, etc.)				
438/257 Having additional gate electrode surrounded				
by dielectric (i.e., floating gate) 438/259Including forming gate electrode in trench or recess in substrate				
2 438/299 (0 OR, 2 XR) Class 438: SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS				
438/142 MAKING FIELD EFFECT DEVICE HAVING PAIR OF ACTIVE REGIONS SEPARATED BY GATE STRUCTUR				
E BY FORMATION OR ALTERATION OF SEMICONDUCTIVE ACTIVE REGIO				
NS 438/197 .Having insulated gate (e.g., IGFET, MISFET, MOSFET, etc.)				

Page 12

10663552_CLSTITLES ..Self-aligned

438/299

2	438/300 Class	,	OR, 2 XR) : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
	438/142		MAKING FIELD EFFECT DEVICE HAVING PAIR OF ACTIVE REGIONS SEPARATED BY GATE STRUCTU
RE BY	FORMATION OF	₹	ALTERATION OF SEMICONDUCTIVE ACTIVE REGI
ONS			
	438/197		.Having insulated gate (e.g., IGFET, MISFET, MOSFET, etc.)
	438/299		Self-aligned
	438/300		Having elevated source or drain (e.g., epitaxially formed source or drain, etc.)
2	438/427	/ 0	OD 2 VD)
۷			OR, 2 XR) : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
	438/400		FORMATION OF ELECTRICALLY ISOLATED LATERAL SEMICONDUCTIVE STRUCTURE
С	438/424		.Grooved and refilled with deposited dielectri
C	438/427		material Refilling multiple grooves of different widths or depths
_	400/500		
2	438/589		OR, 2 XR)
	Class	438	: SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
	438/584		COATING WITH ELECTRICALLY OR THERMALLY CONDUCTIVE MATERIAL
	438/585		.Insulated gate formation
	438/589		Recessed into semiconductor substrate
2	438/631	(0	OR, 2 XR)
۷	•	•	: SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
	438/584		COATING WITH ELECTRICALLY OR THERMALLY CONDUCTIVE MATERIAL
	438/597		.To form ohmic contact to semiconductive material
	438/618		Contacting multiple semiconductive regions (i.e., interconnects)
	438/622		Multiple metal levels, separated by insulating layer (i.e., multiple level met
alliz	ation)		
U I I I Z	438/631		Having planarization step

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